**Figure 1**

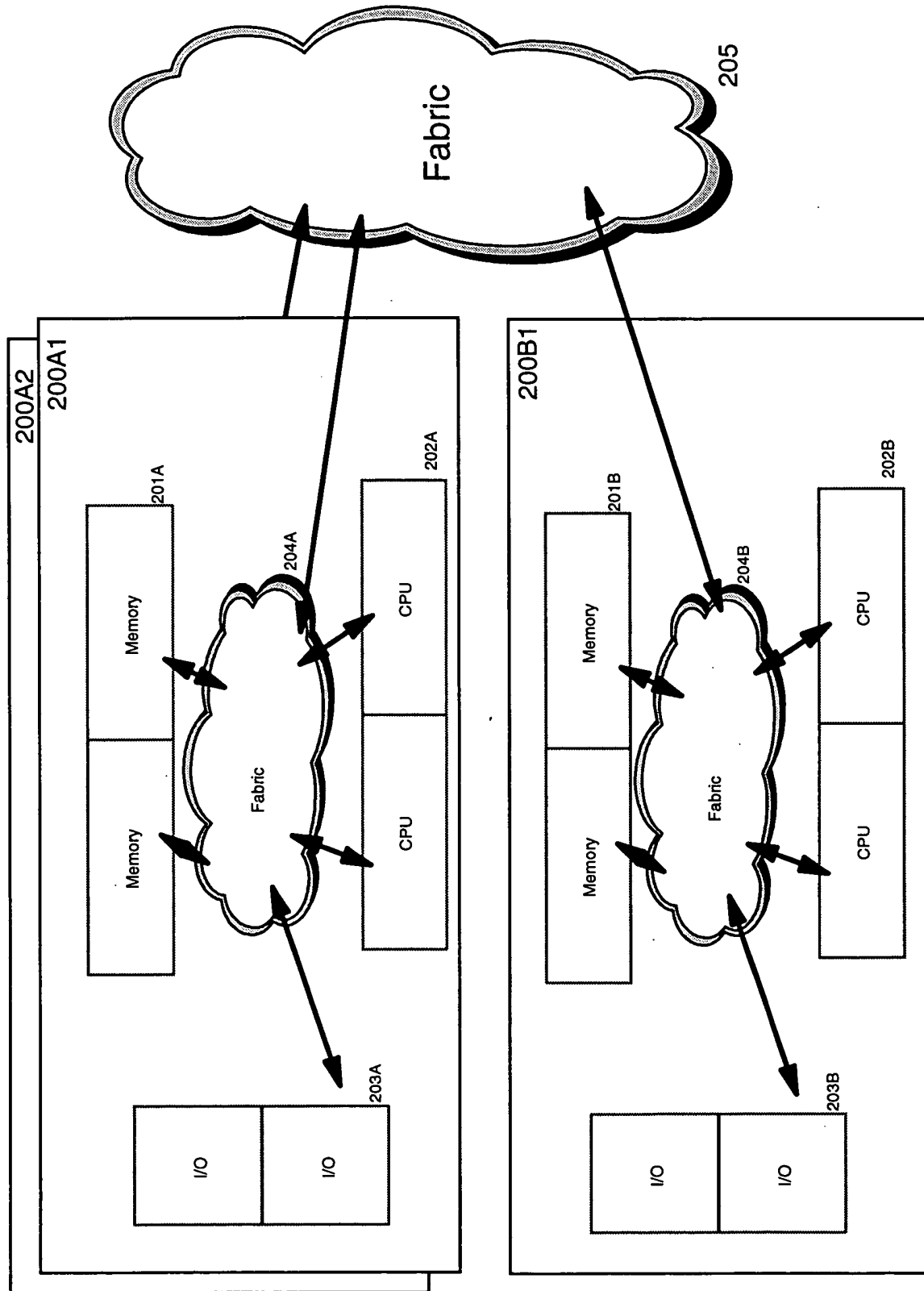


Figure 2

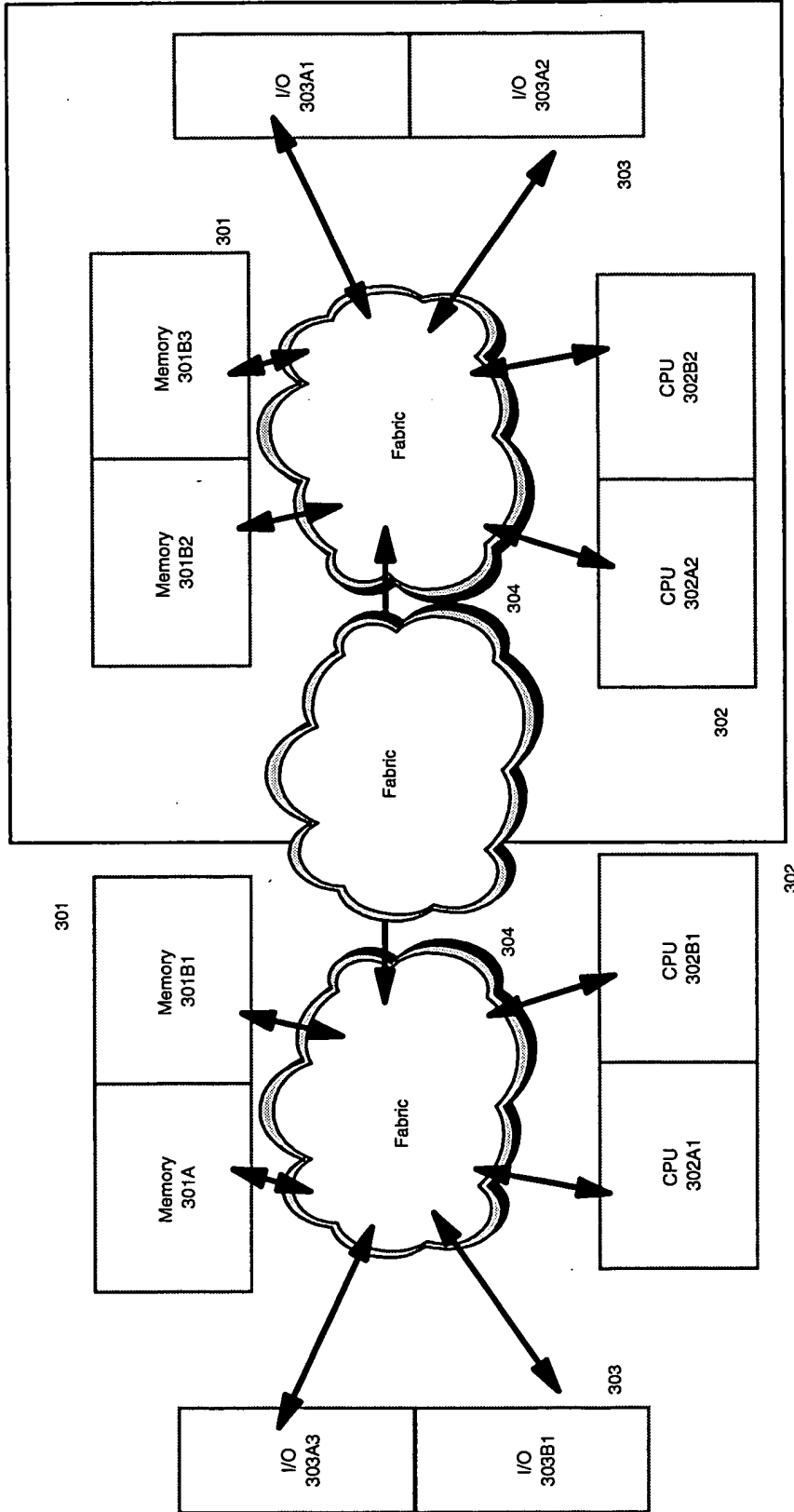


Figure 3

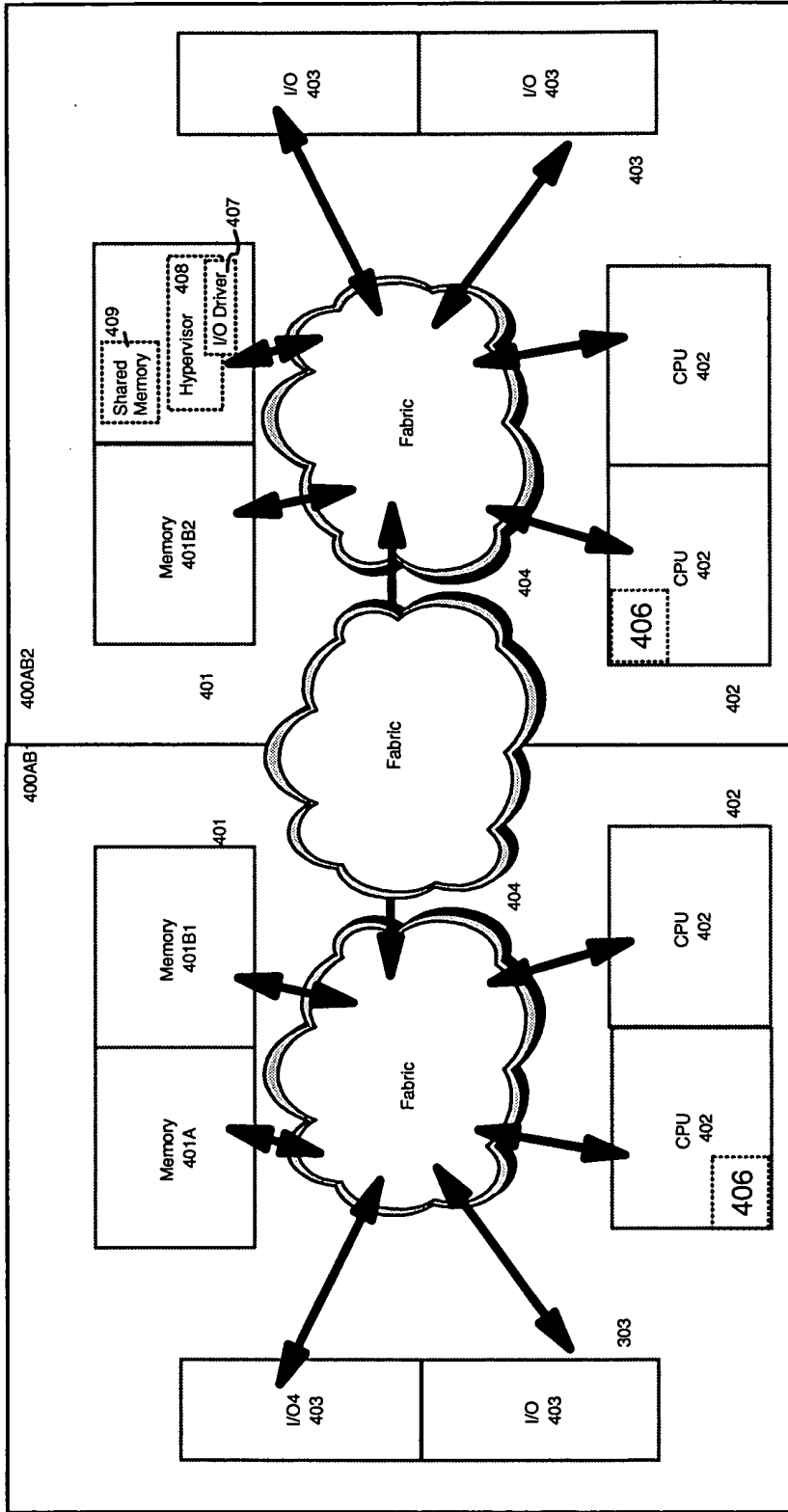
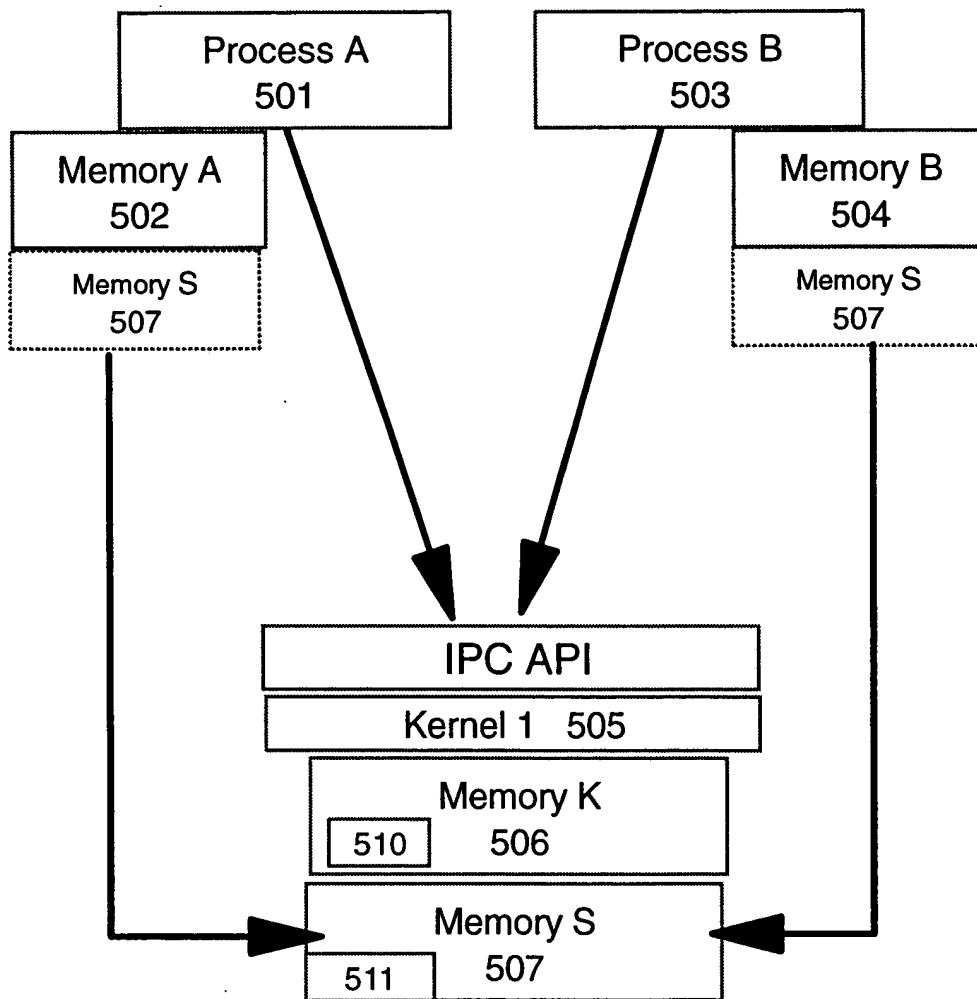


Figure 4

**Figure 5**

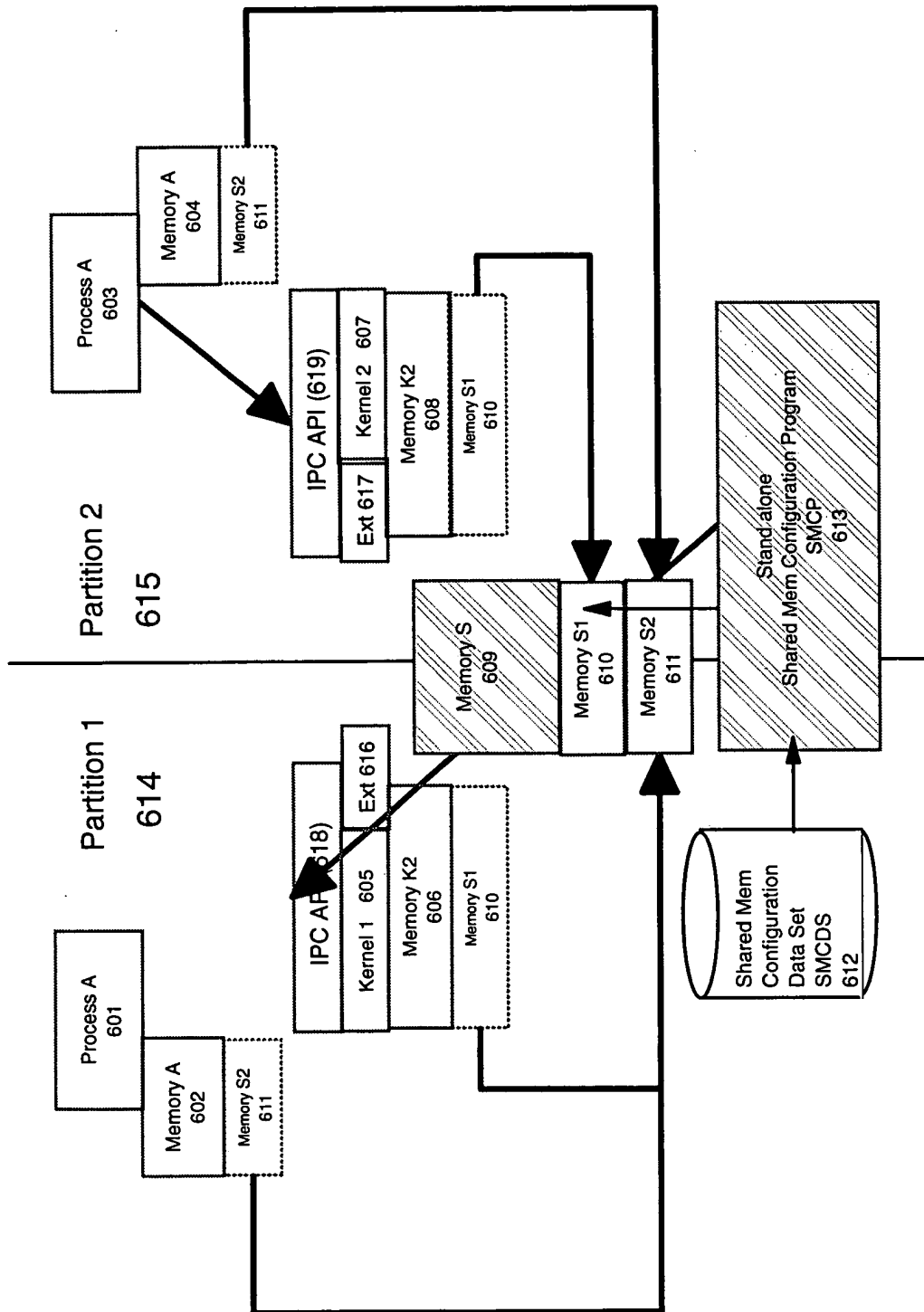


Figure 6

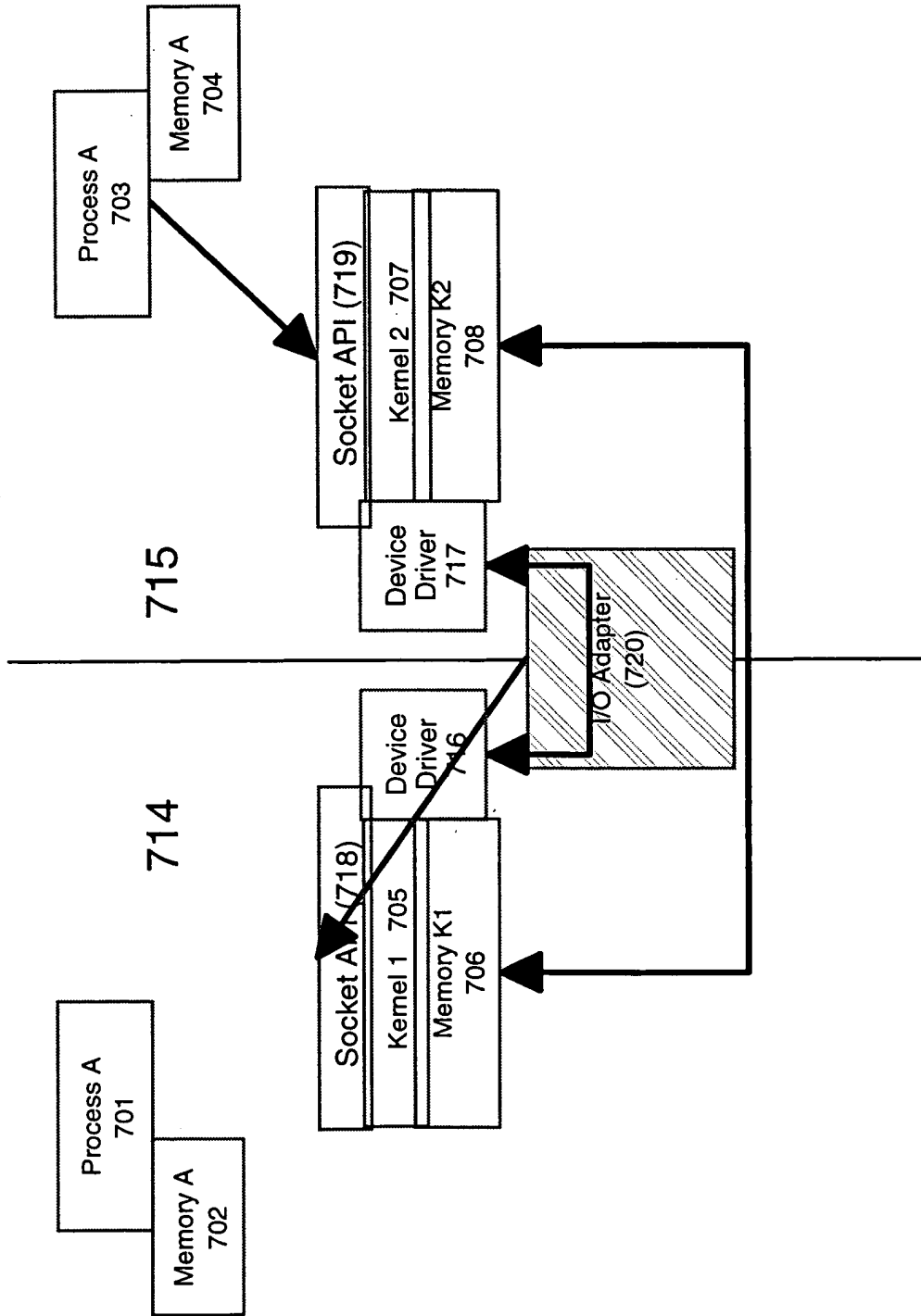


Figure 7A

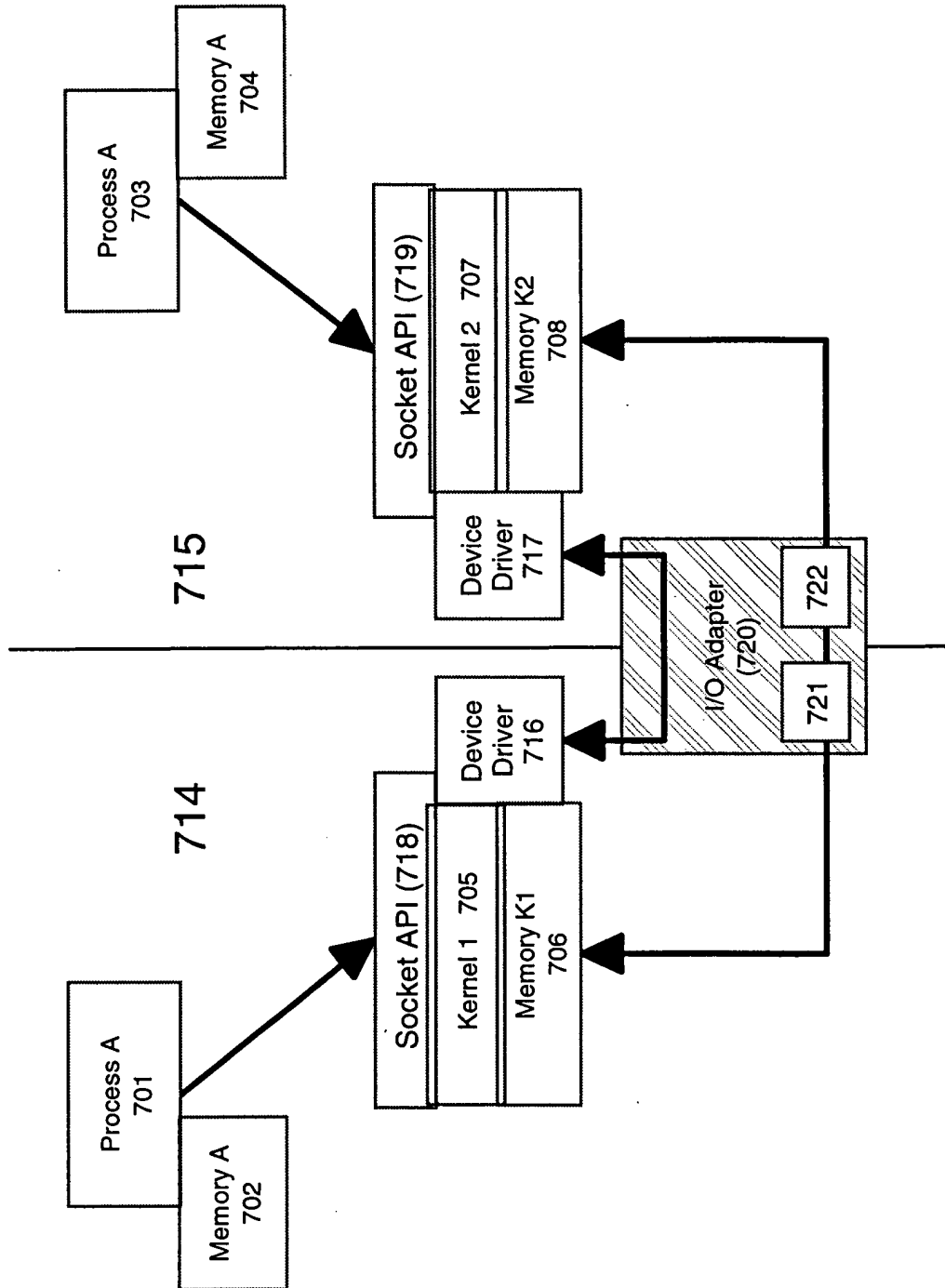


Figure 7B

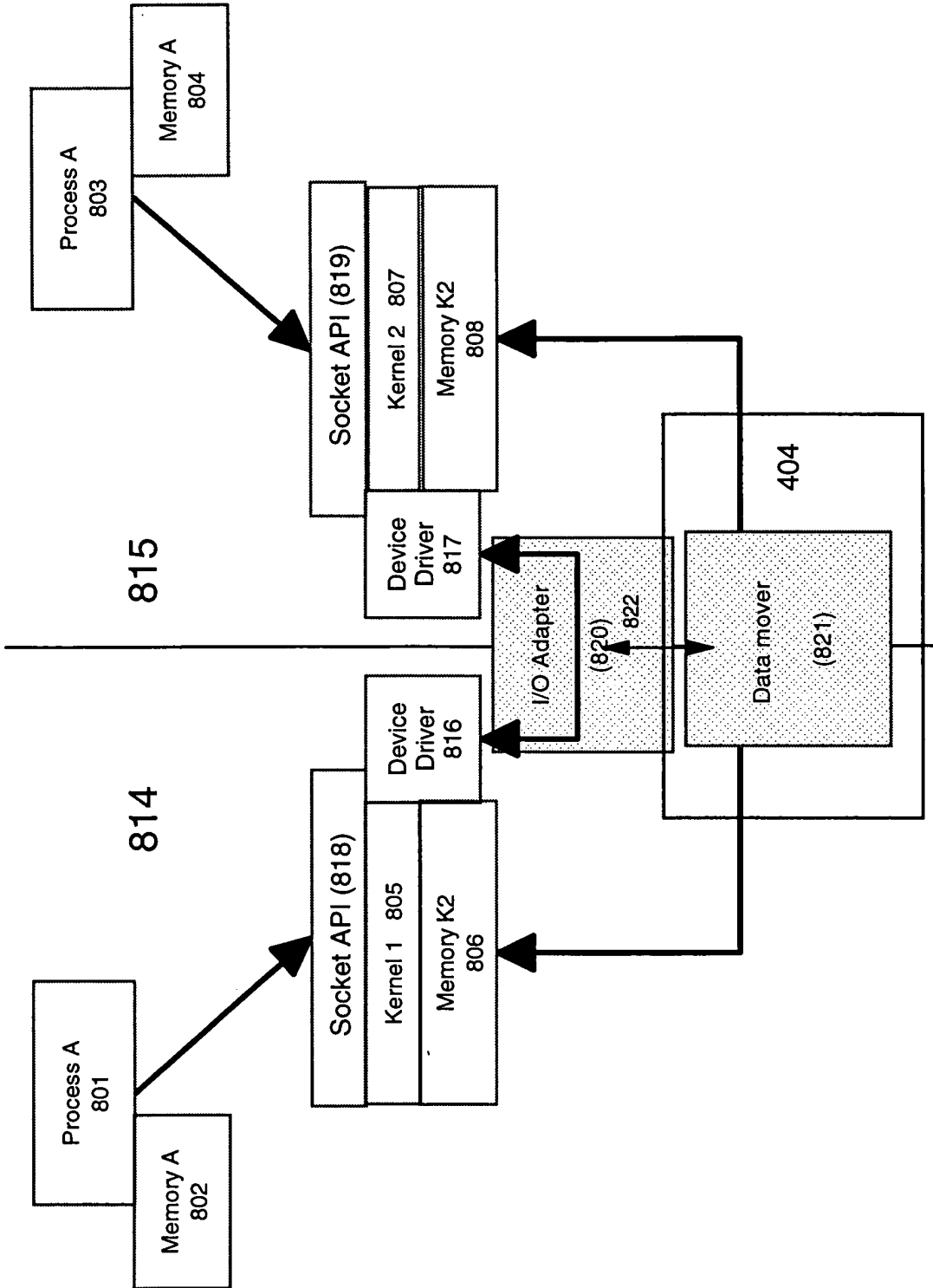


Figure 8

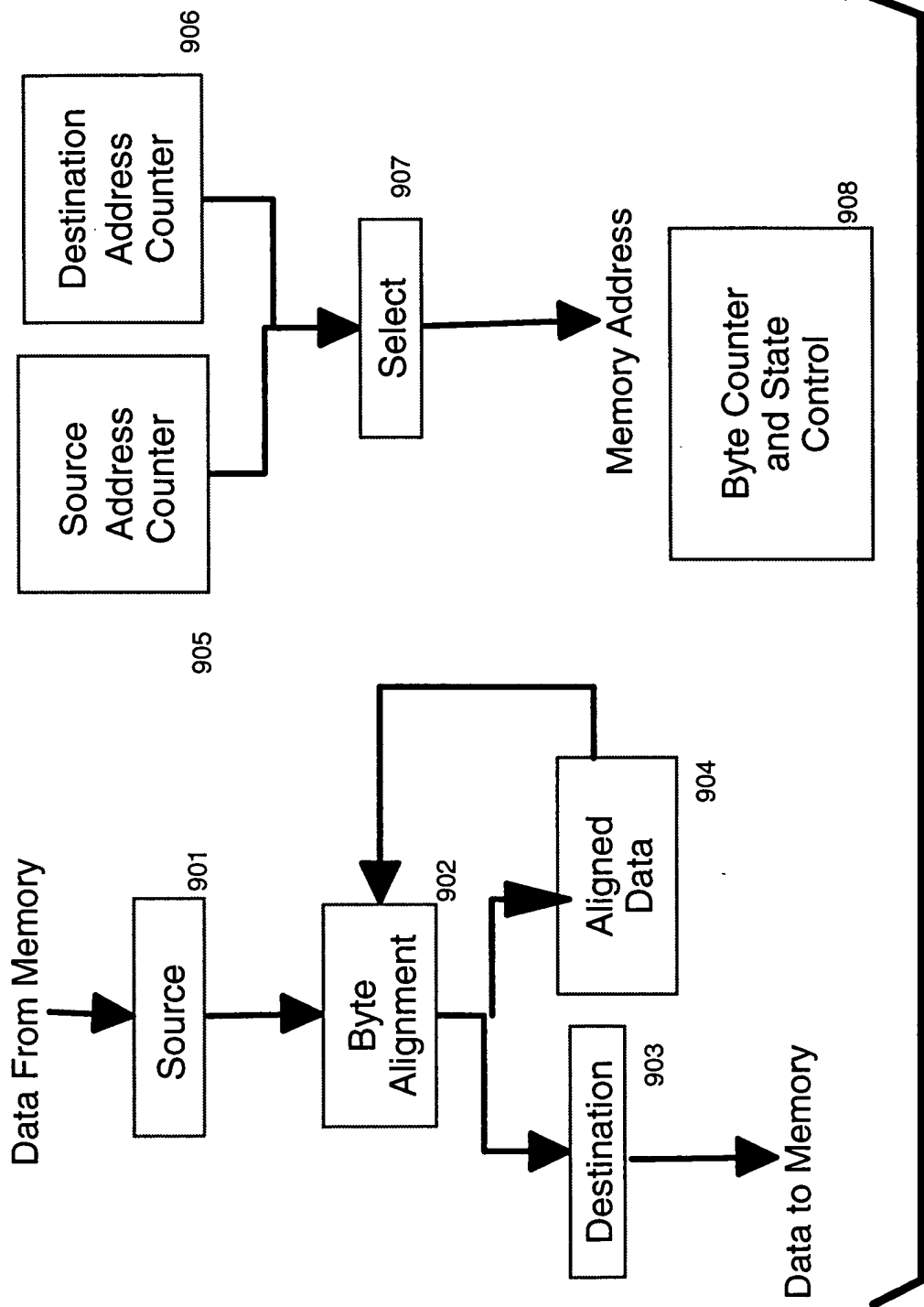


Figure 9

1000

MVXL	Count	Destination	Source
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Figure 10

1101. User calls Device Driver
- Supplies
 - Source Network ID
 - Source Offset
 - Destination Network ID
1102. Device driver transfers addresses to Adapter
1103. Adapter Translates Addresses
- Looks up Physical Base addresses from ID's (Table Lookup)
 - Obtains Lock and current Destination Offset
 - Adds offsets
 - Checks bounds
1104. Adapter loads count and addresses in registers
1105. Adapter executes Data Move
1106. Adapter Frees Lock
1107. Adapter notifies device Driver which "Returns" to user

Figure 11

1201. User calls Device Driver

- Supplies

 - Source Network ID

 - Source Offset

 - Destination Network ID

1202. Device driver sends addresses to adapter

1203. Adapter Translates

- Looks up Physical Base addresses from ID's
(Table Lookup)

- Obtains Lock and current Destination Offset*

- Adds offsets

- Checks bounds

- Returns Lock and Physical addresses to
Device Driver

1204. Device Driver executes Data Move

1205. Device Driver Frees Lock

1206. Device Driver Returns

Figure 12

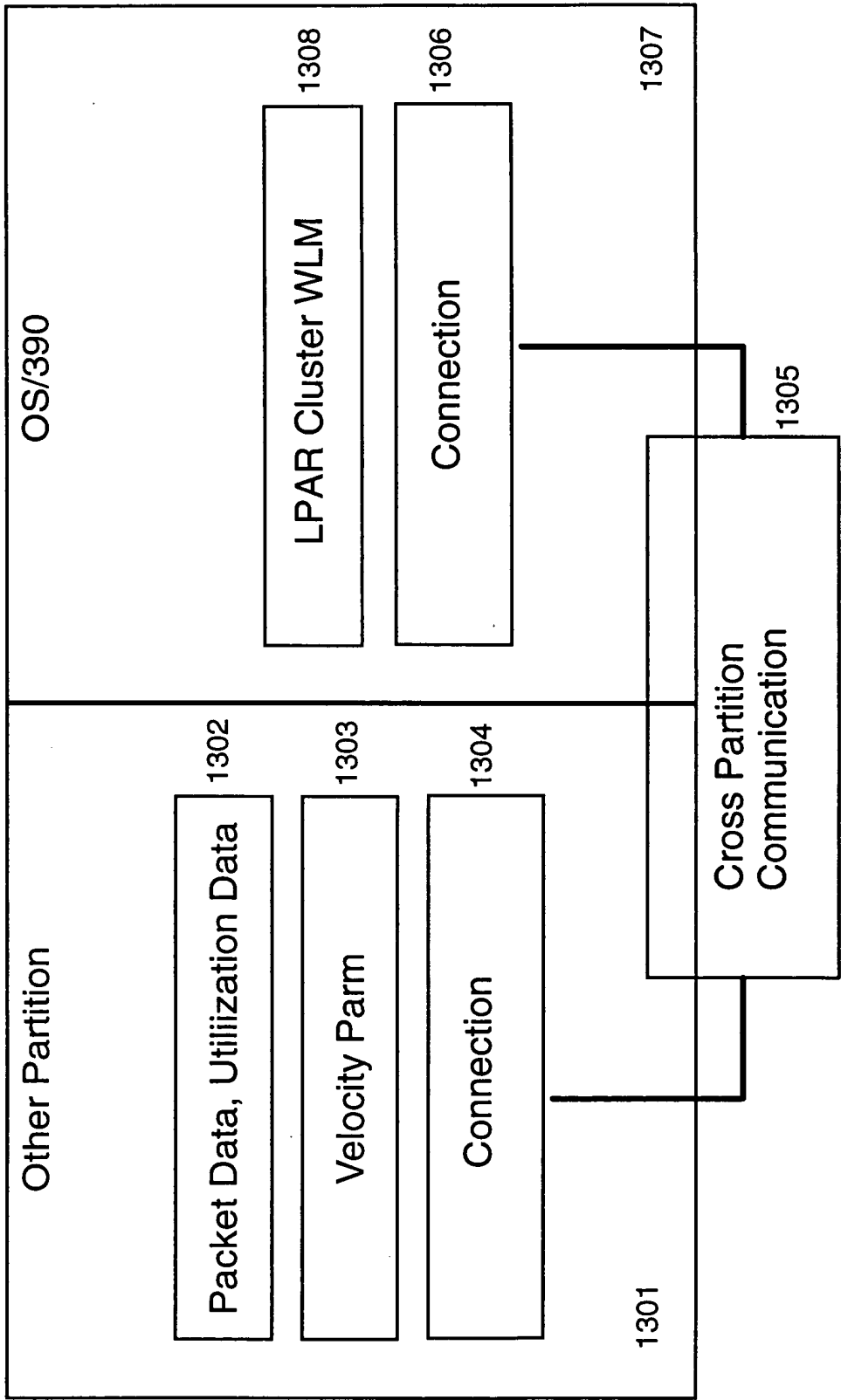


Figure 13

Cum Packets v CPU

$$S = dT/dC$$

1405

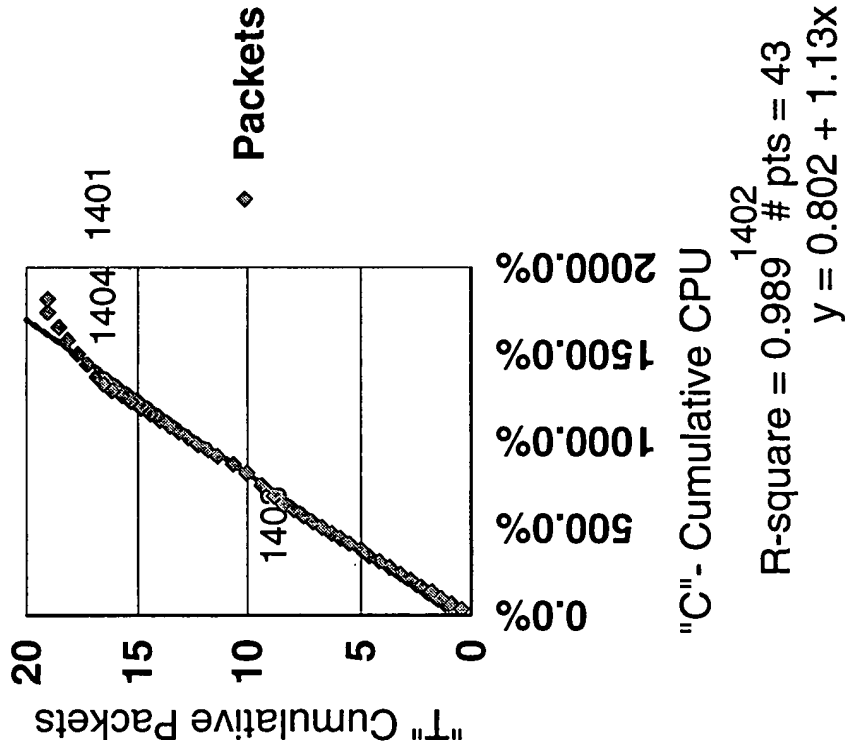


Figure 14

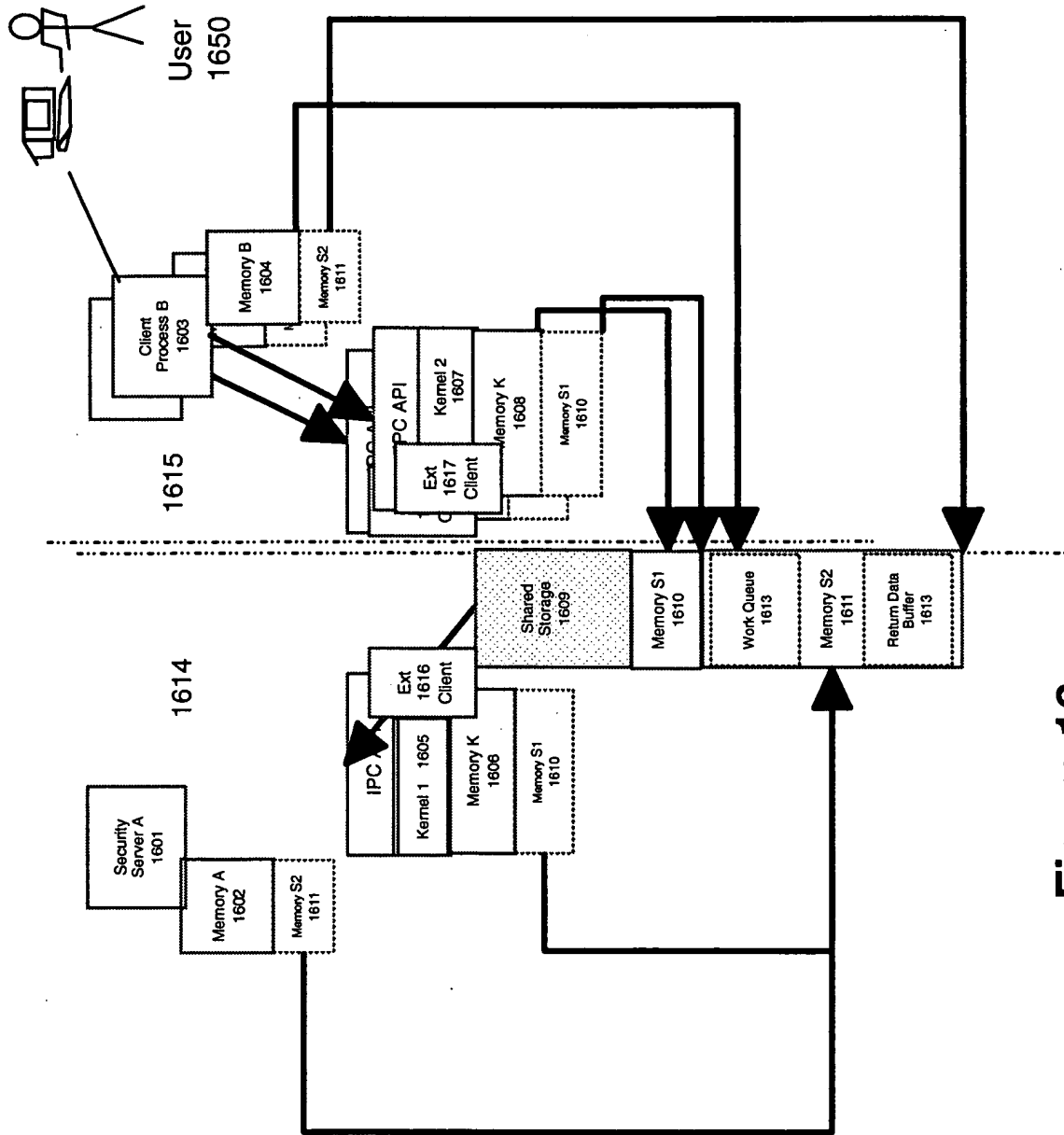


Figure 16